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NOTICE OF ALLOWANCE AND FEE(S) DUE

21186

7590

09/25/2009

SCHWEGMAN, LUNDBERG & WOESSNER, P.A. P.O. BOX 2938
MINNEAPOLIS, MN 55402

EXAMINER

WANG, JIN CHENG

ART UNIT PAPER NUMBER

2628 DATE MAILED: 09/25/2009

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/439,225	11/12/1999	CARLOS SALDANHA	1162.007US1	1407	

TITLE OF INVENTION: SYSTEM AND METHOD FOR DISPLAYING SELECTED GARMENTS ON A COMPUTER-SIMULATED MANNEQUIN

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	12/28/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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SCHWEGMA P.O. BOX 2938 MINNEAPOLIS	≿ WOESSNER, P.	A. I S a t	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.						
									(Depositor's name)
			[(Signature)
			L						(Date)
APPLICATION NO.	PPLICATION NO. FILING DATE		FIRST NAMED INVENT	TOR ATTORNEY DOCKE		RNEY DOCKET NO.	CONFIR	MATION NO.	
09/439,225	11/12/1999	•	CARLOS SALDANH	ΙA	•		1162.007US1		1407
APPLN. TYPE	SMALL ENTITY	IOD FOR DISPLAYING ISSUE FEE DUE	PUBLICATION FEE DU		EV. PAID ISSUE		TOTAL FEE(S) DUE	_	DATE DUE
nonprovisional	NO	\$1510	\$0		\$0		\$1510		2/28/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS	\neg					
WANG, JIN CHENG 2628			345-629000						
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON 			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
recordation as set fort (A) NAME OF ASSI	th in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	T a substitute for filing (B) RESIDENCE: (CI	an assig	nment. STATE OR CO	OUNT	RY)		
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	∟ Indi	vidual 🖵 Coi	rporati	on or other private gro	up entity	Government
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SCHWEGMAN.	LUNDBERG & WO	WANG, JIN CHENG			
P.O. BOX 2938		ART UNIT	PAPER NUMBER		
MINNEAPOLIS,	MINNEAPOLIS, MN 55402		2628		
			DATE MAILED: 09/25/2009		

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 922 day(s). Any patent to issue from the above-identified application will include an indication of the 922 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)					
	09/439,225	SALDANHA ET AL.					
Notice of Allowability	Examiner	Art Unit					
	JIN-CHENG WANG	2628					
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS					
1. This communication is responsive to 8/17/2009.							
2. The allowed claim(s) is/are <u>1-15,18-31 and 33-45</u> .							
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do 	e been received. e been received in Application No						
International Bureau (PCT Rule 17.2(a)).							
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements					
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give							
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.						
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-	948) attached					
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	1) ☐ hereto or 2) ☐ to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of					
ldentifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t							
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT							
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	<u> </u>	(PTO-413), e .					
/Jin-Cheng Wang/							
Primary Examiner, Art Unit 2628							



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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Applicant canceled the base claim 16 while the claim 18 depends upon the base claim 16. Therefore, all claim limitations set forth in the original base claim 16 should be incorporated into the claim 18. Applicant also canceled the base claim 32 while the claim 33 depends upon the base claim 32. Therefore, all claim limitations set forth in the original base claim 32 should be incorporated into the claim 33. The application has been amended as follows:

18. (Currently Amended) [The method of claim 16 further comprising constraining portions of the garment to reside within or outside of one or more shells defined around the mannequin in each rendering frame during the draping and collision simulation, wherein each shell is a three-dimensional construct designed to mimic the physical interaction of the garment with another garment.] A method for producing an image of a computer-simulated mannequin wearing a garment as defined by selected mannequin and garment parameter values, comprising:

generating objects corresponding to a first mannequin and a first garment placed in a simulation scene within a three-dimensional modeling environment;

simulating draping and collision of the first garment with the first mannequin within the simulation scene to generate a first three-dimensional rendering frame of the first mannequin wearing the first garment;

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garment as defined by selected parameter values that specify different dimensions from the first mannequin and/or first garment by shape blending corresponding objects of the first rendering frame, wherein the shape blending is performed by linearly combining parameters of the first rendering frame and performing a partial draping and collision simulation;

rendering an image from the second rendering frame; and

constraining portions of the garment to reside within or outside of one or more shells

defined around the mannequin in each rendering frame during the draping and collision

simulation, wherein each shell is a three-dimensional construct designed to mimic the physical interaction of the garment with another garment.

33. (Currently Amended) [The system of claim 32 further comprising means for constraining portions of the garment to reside within or outside of one or more shells defined around the mannequin in each rendering frame during the draping and collision simulation, wherein each shell is a three-dimensional construct designed to mimic the physical interaction of the garment with another garment.] A system for generating images of a computer-simulated mannequin wearing a garment as defined by selected mannequin and garment parameter values, comprising:

a user interface by which a user selects a mannequin and one or more garments to be worn by the mannequin, wherein the mannequin and garments selected may be further defined by specific mannequin and garment parameter values;

a three-dimensional modeling environment for generating objects corresponding to a representative mannequin and a representative garment placed in a simulation scene and for simulating draping and collision of the representative garment with the representative mannequin within the simulation scene to generate a first three-dimensional rendering frame of the mannequin wearing the garment;

means for generating a second rendering frame containing the selected mannequin and the selected garment as defined by selected parameter values that specify different dimensions from the representative mannequin and/or representative garment by shape blending corresponding objects of the first rendering frame, wherein the shape blending is performed by linearly combining parameters of the first rendering frame and performing a partial draping and collision simulation;

means for rendering an image from the second rendering frame; and

means for constraining portions of the garment to reside within or outside of one or more

shells defined around the mannequin in each rendering frame during the draping and collision

simulation, wherein each shell is a three-dimensional construct designed to mimic the physical

interaction of the garment with another garment.

Reasons for Allowance

Claims 1-15, 18-31, and 33-45 of the amendment filed 8/17/2009 are allowed. The following is an examiner's statement of reasons for allowance of these claims: Nothing in the prior art anticipates or suggests, "constraining portions of the garment to reside within or outside

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of one or more shells defined around the mannequin in each rendering frame during the draping and collision simulation, wherein each shell is a three-dimensional construct designed to mimic the physical interaction of the garment with another garment", in a method for producing an image of a computer-simulated mannequin wearing a garment as defined by selected mannequin and garment parameter values, set forth in the base claim 1. The claims 2-15, 18-31, and 33-45 are allowed for the same reasons.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jin-Cheng Wang whose telephone number is (571) 272-7665. The examiner can normally be reached on 8:00 - 6:30 (Mon-Thu).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kee Tung can be reached on (571) 272-7794. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jin-Cheng Wang/ Primary Examiner, Art Unit 2628